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JAPANESE PATENT OFFICE

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(71) Applicant: LINTEC CORP

(72) Inventor: SENOO HIDEO
SUGINO TAKASHI
KOGURE MASAO

(54) HARDENABLE PRESSURE-SENSITIVE
ADHESIVE TAPE AND METHOD OF USING IT

(57) Abstract:

PURPOSE: To obtain a hardenable, pressure-sensitive adhesive tape which can be used as a dicing tape in dicing, e.g. a silicon wafer and as an adhesive in mounting by using a specified copolymer.

CONSTITUTION: This tape has a hardenable pressure-sensitive adhesive layer formed from a composition consisting of an actinic-radiation-curable copolymer (A) which is obtained by reacting an acrylic copolymer having functional monomer units with an unsaturated compound having substituents reactive with

the functional groups of the monomer and which has unsaturated groups polymerizable by actinic radiation on the side chain and a molecular weight of at least 100,000, an epoxy resin (B) and a heat-activatable latent curing agent (C) for epoxy resin. The composition may also contain an acrylic polymer (D) having a molecular weight of at least 100,000 and a glass transition temperature of 10°C or lower and/or a photopolymerization initiator (E). It is desirable that the hardenable pressure-sensitive adhesive layer is formed on a light-transmitting support having a surface tension of at most 40dyn/cm.

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